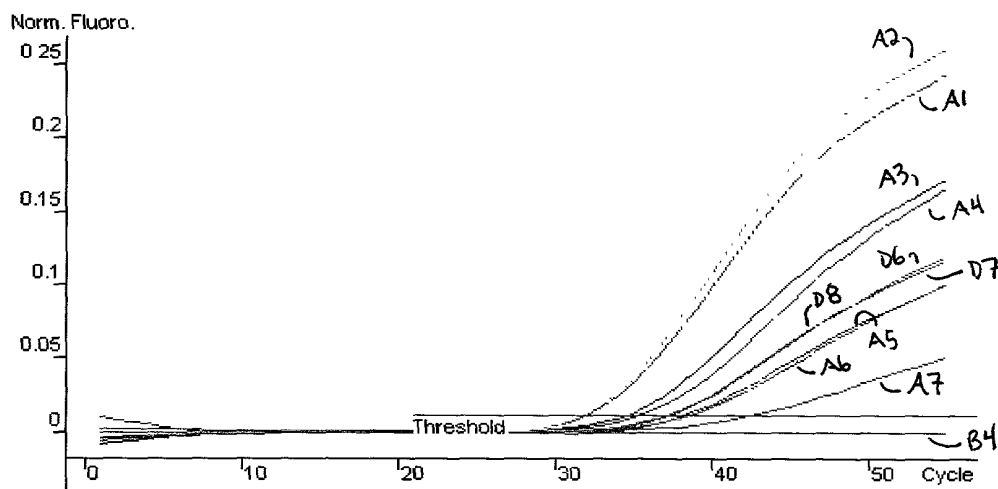
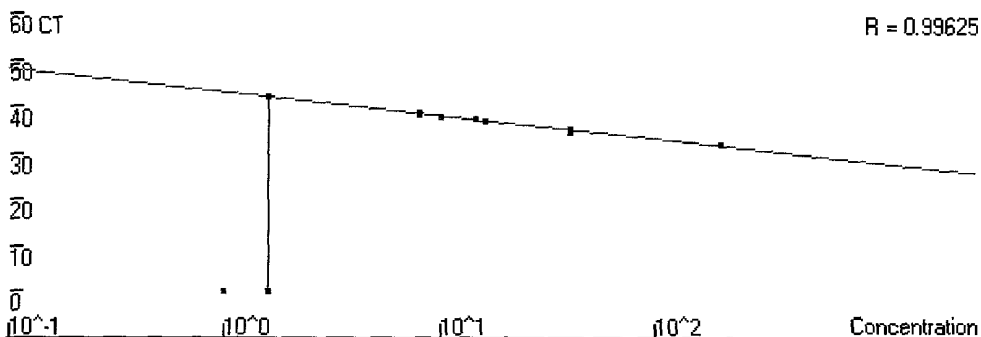


# **Amplification plots and Quantitation data for Human BRN2 ( Duplexed with Human GAPDH Figure 1b)**



## **Standard Curve**

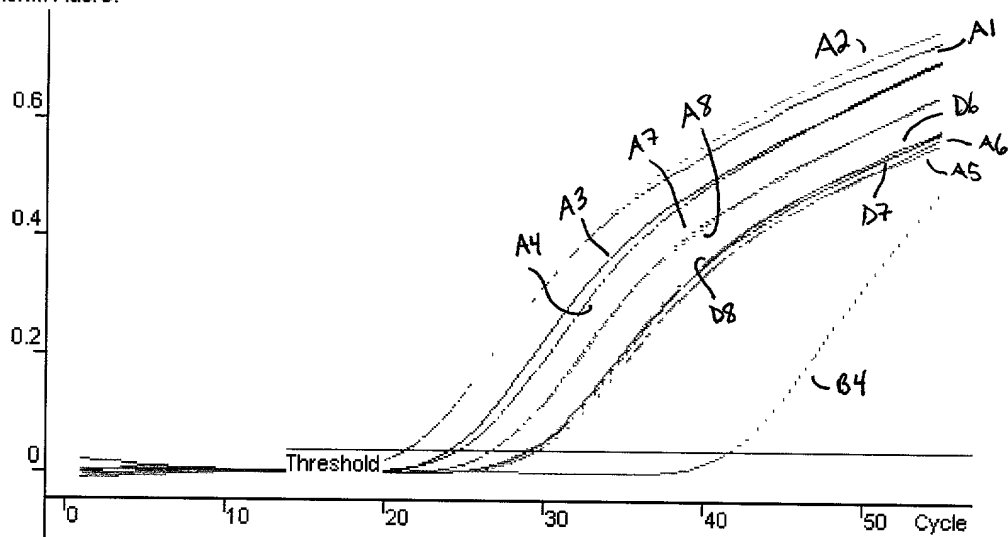


No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
A1		dT SS RNA 200ng	Standard	200.0	174.9	12.54%	31.94	0.07
A2		dT SS RNA 200ng	Standard	200.0	187.5	6.25%	31.79	0.07
A3		dT SS RNA 40ng	Standard	40.0	54.2	35.54%	34.47	0.43
A4		dT SS RNA 40ng	Standard	40.0	36.4	8.98%	35.33	0.43
A5		dT SS RNA 8ng	Standard	8.0	7.9	1.70%	38.64	0.13
A6		dT SS RNA 8ng	Standard	8.0	8.9	10.88%	38.38	0.13
A7		dT SS RNA 1.6ng	Standard	1.6	1.5	9.30%	42.29	21.15
A8		dT SS RNA 1.6ng	Standard	1.6				21.15
B4		RTminus MM96L 2.1.1, NRO 10 <sup>6</sup> nuclei	Sample					
D6		RT plus MM96L 2.1.1, NRO 10 <sup>6</sup> nuclei	Sample		16.3		37.07	
D7		RT plus MM96L 2.1.1, NRO 10 <sup>6</sup> nuclei	Sample		14.5		37.32	
D8		RT plus MM96L 2.1.1, NRO 10 <sup>6</sup> nuclei	Sample		10.1		38.11	

**Figure 1a**

## Amplification plots and Quantitation data for Human GAPDH (Duplexed with Human BRN2 Figure 1a)

Norm. Fluoro.



### Standard Curve

60 CT

R = 0.99747

50

40

30

20

10

0

$10^{-1}$

$10^0$

$10^1$

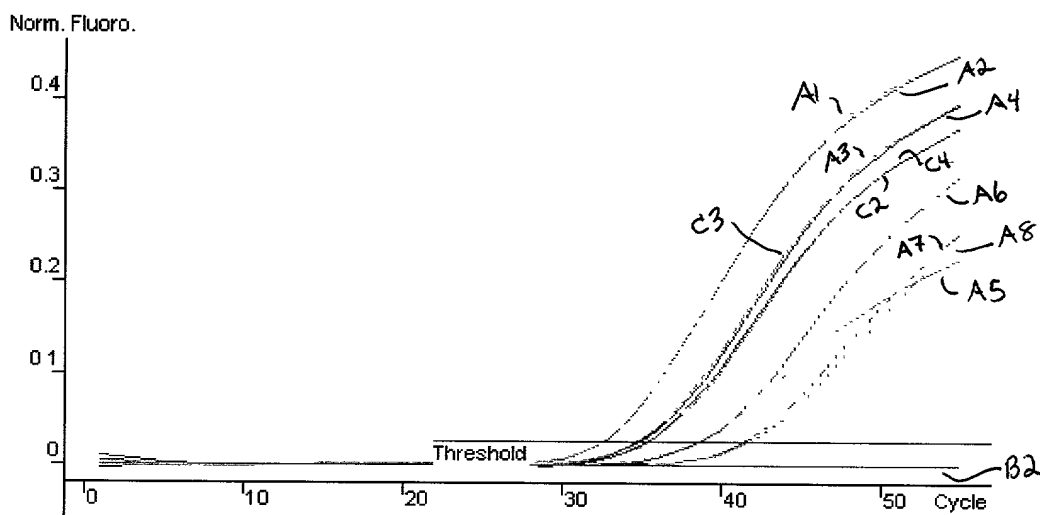
$10^2$

Concentration

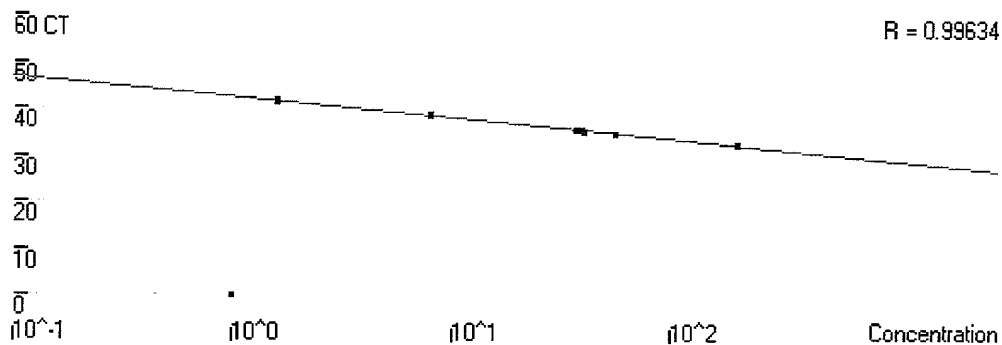
No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
A1		dT SS RNA 200ng	Standard	200.0	210.2	5.10%	21.37	0.04
A2		dT SS RNA 200ng	Standard	200.0	220.4	10.18%	21.29	0.04
A3		dT SS RNA 40ng	Standard	40.0	40.3	0.78%	24.17	0.29
A4		dT SS RNA 40ng	Standard	40.0	28.8	28.00%	24.74	0.29
A5		dT SS RNA 8ng	Standard	8.0	8.4	5.57%	26.82	0.01
A6		dT SS RNA 8ng	Standard	8.0	8.5	6.82%	26.8	0.01
A7		dT SS RNA 1.6ng	Standard	1.6	1.6	0.55%	29.65	0.06
A8		dT SS RNA 1.6ng	Standard	1.6	1.7	6.12%	29.54	0.06
B4		RTminus MM96L 2.1.1 NRO $10^6$ nuclei	Sample		0.0		41.63	
D6		RT plus MM96L 2.1.1 NRO $10^6$ nuclei	Sample		2.3		29.05	
D7		RT plus MM96L 2.1.1 NRO $10^6$ nuclei	Sample		2.0		29.29	
D8		RT plus MM96L 2.1.1 NRO $10^6$ nuclei	Sample		2.1		29.18	

**Figure 1b**

# **Amplification plots and Quantitation data for Murine B16 TYROSINASE (Duplexed with Murine GAPDH Figure 2b)**



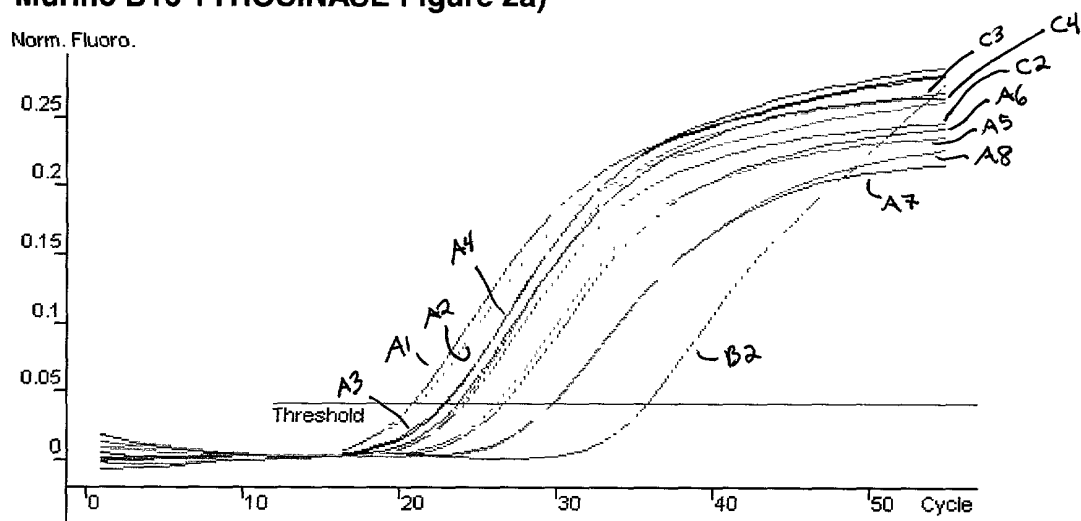
## **Standard Curve**



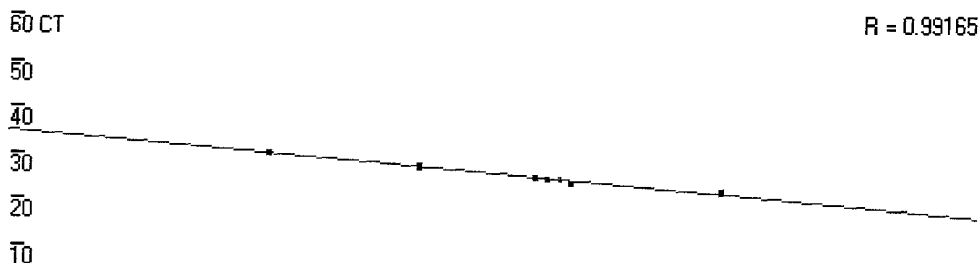
No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
A1		dT SS RNA 200ng	Standard	200.0	166.8	16.60%	32.52	0.05
A2		dT SS RNA 200ng	Standard	200.0	175.7	12.16%	32.42	0.05
A3		dT SS RNA 40ng	Standard	40.0	52.2	30.55%	34.76	0.06
A4		dT SS RNA 40ng	Standard	40.0	49.1	22.67%	34.88	0.06
A5		dT SS RNA 8ng	Standard	8.0	7.9	1.12%	38.4	0.10
A6		dT SS RNA 8ng	Standard	8.0	7.1	10.86%	38.6	0.10
A7		dT SS RNA 1.6ng	Standard	1.6	1.7	6.56%	41.36	0.16
A8		dT SS RNA 1.6ng	Standard	1.6	1.5	9.26%	41.67	0.16
B2		RTminus B16 TYR Parental NRO 10 <sup>6</sup> nuclei	Sample					
C2		RT plus B16 TYR parental NRO 10 <sup>6</sup> nuclei	Sample		37.1		35.42	
C3		RT plus B16 TYR parental NRO 10 <sup>6</sup> nuclei	Sample		56.2		34.62	
C4		RT plus B16 TYR parental NRO 10 <sup>6</sup> nuclei	Sample		39.1		35.32	

**Figure 2a**

# **Amplification plots and Quantitation data for GAPDH (Duplexed with Murine B16 TYROSINASE Figure 2a)**



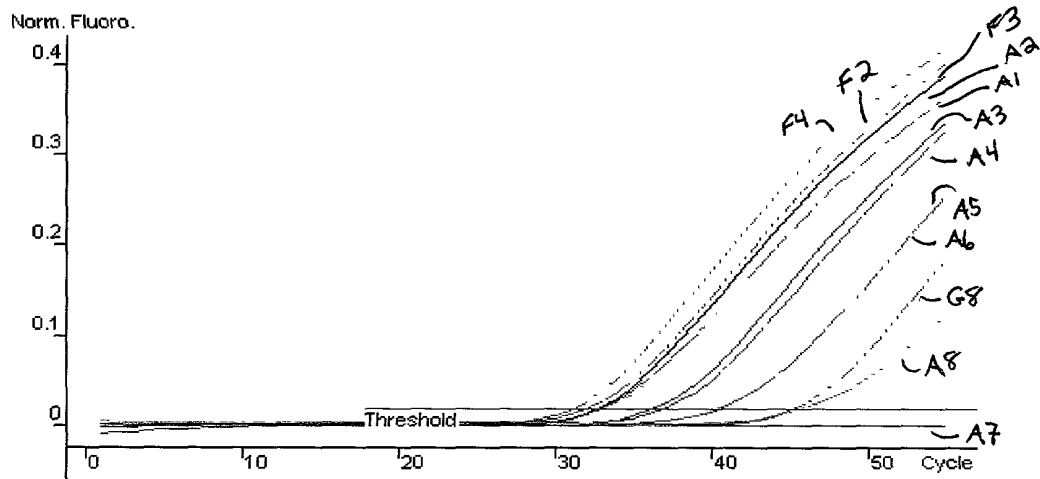
## **Standard Curve**



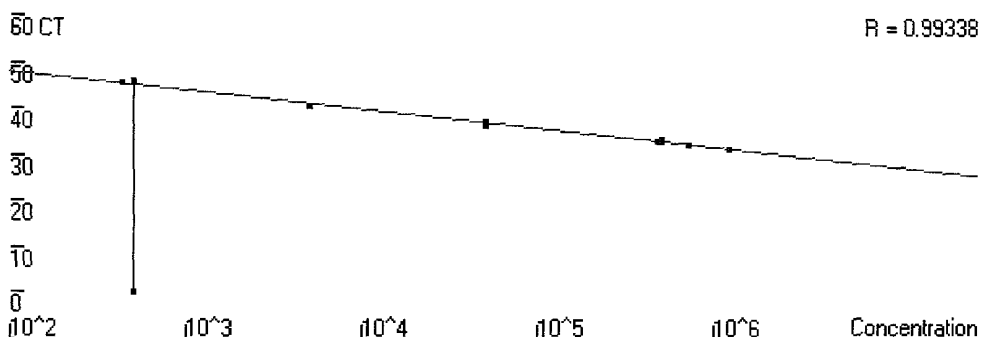
No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
A1		dT SS RNA 200ng	Standard	200.0	168.4	15.81%	20.91	0.20
A2		dT SS RNA 200ng	Standard	200.0	136.9	31.55%	21.3	0.20
A3		dT SS RNA 40ng	Standard	40.0	53.5	33.75%	23.07	0.07
A4		dT SS RNA 40ng	Standard	40.0	57.6	44.07%	22.93	0.07
A5		dT SS RNA 8ng	Standard	8.0	9.2	14.78%	26.39	0.19
A6		dT SS RNA 8ng	Standard	8.0	7.5	6.19%	26.77	0.19
A7		dT SS RNA 1.6ng	Standard	1.6	1.5	7.08%	29.82	0.03
A8		dT SS RNA 1.6ng	Standard	1.6	1.4	9.99%	29.88	0.03
B2		RTminus B16 TYR Parental NRO 10 <sup>6</sup> nuclei	Sample		0.1		35.94	
C2		RT plus B16 TYR parental NRO 10 <sup>6</sup> nuclei	Sample		27.8		24.3	
C3		RT plus B16 TYR parental NRO 10 <sup>6</sup> nuclei	Sample		31.1		24.09	
C4		RT plus B16 TYR parental NRO 10 <sup>6</sup> nuclei	Sample		35.9		23.82	

**Figure 2b**

# **Amplification plots and Quantitation data for EGFP (Duplexed with Murine GAPDH Figure 3b)**



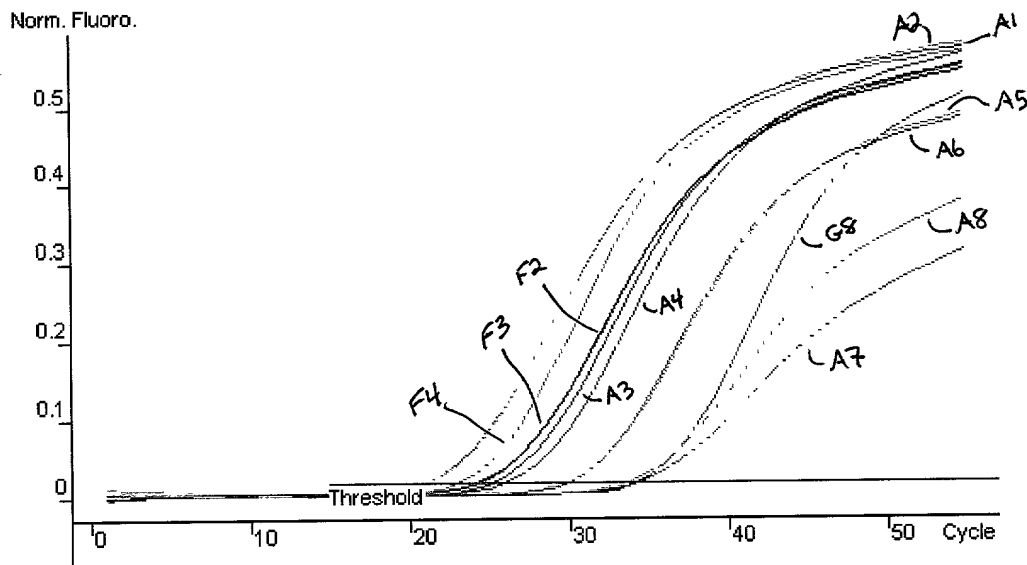
## **Standard Curve**



No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
A1		dT/SS RNA 500ng	Standard	500,000	438,882	12.22%	32.97	0.12
A2		dT/SS RNA 500ng	Standard	500,000	381,732	23.65%	33.22	0.12
A3		dT/SS RNA 50ng	Standard	50,000	65,817	31.63%	36.37	0.33
A4		dT/SS RNA 50ng	Standard	50,000	45,539	8.92%	37.03	0.33
A5		dT/SS RNA 5ng	Standard	5,000	7,062	41.23%	40.37	0.07
A6		dT/SS RNA 5ng	Standard	5,000	6,531	30.62%	40.51	0.07
A7		dT/SS RNA 0.5ng	Standard	500				22.91
A8		dT/SS RNA 0.5ng	Standard	500	337	32.53%	45.82	22.91
F2		RT plus B16 EGFP #12 NRO 10 <sup>6</sup> nuclei	Sample		717,169		32.09	
F3		RT plus B16 EGFP #12 NRO 10 <sup>6</sup> nuclei	Sample		477,201		32.82	
F4		RT plus B16 EGFP #12 NRO 10 <sup>6</sup> nuclei	Sample		1,198,365		31.17	
G8		RT minus B16 EGFP #12 NRO 10 <sup>6</sup> nuclei	Sample		429		45.39	

**Figure 3a**

# **Amplification plots and Quantitation data for Murine GAPDH (Duplexed with EGFP Figure 3a)**



## **Standard Curve**

60 CT

R = 0.99769

50

40

30

20

10

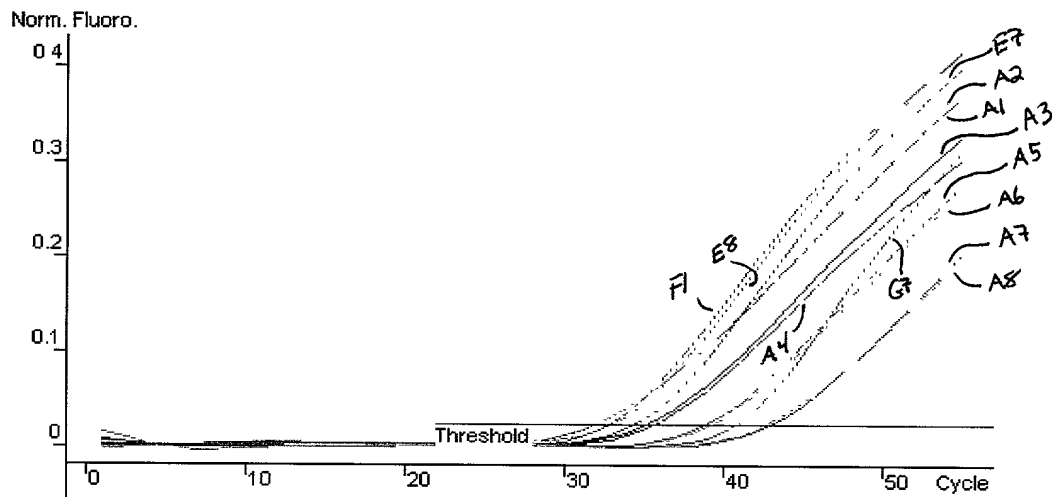
0

10<sup>-2</sup> 10<sup>-3</sup> 10<sup>-4</sup> 10<sup>-5</sup> 10<sup>-6</sup> Concentration

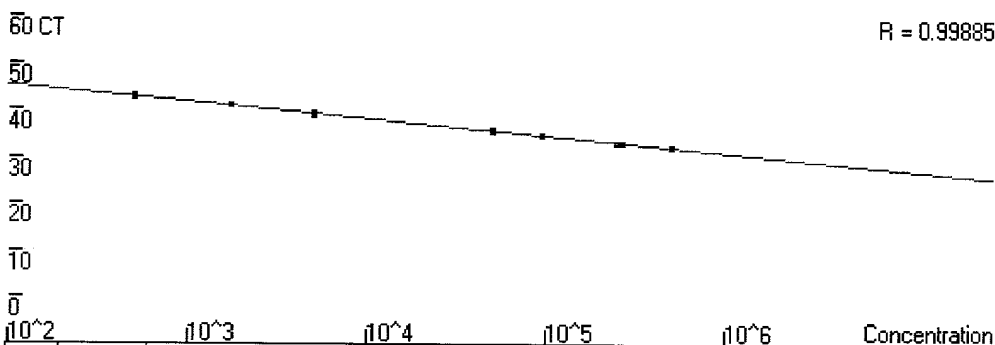
No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
A1		dT/SS RNA 500ng	Standard	500,000	554,947	10.99%	20.89	0.09
A2		dT/SS RNA 500ng	Standard	500,000	504,712	0.94%	21.07	0.09
A3		dT/SS RNA 50ng	Standard	50,000	57,828	15.66%	25.18	0.44
A4		dT/SS RNA 50ng	Standard	50,000	36,174	27.65%	26.07	0.44
A5		dT/SS RNA 5ng	Standard	5,000	4,829	3.42%	29.89	0.02
A6		dT/SS RNA 5ng	Standard	5,000	4,728	5.43%	29.93	0.02
A7		dT/SS RNA 0.5ng	Standard	500	436	12.71%	34.45	0.41
A8		dT/SS RNA 0.5ng	Standard	500	669	33.79%	33.64	0.41
F2		RT plus B16 EGFP #12 NRO 10 <sup>6</sup> nuclei	Sample		85,418		24.44	
F3		RT plus B16 EGFP #12 NRO 10 <sup>6</sup> nuclei	Sample		93,426		24.27	
F4		RT plus B16 EGFP #12 NRO 10 <sup>6</sup> nuclei	Sample		172,197		23.11	
G8		RTminus B16 EGFP #12 NRO 10 <sup>6</sup> nuclei	Sample		443		34.42	

**Figure 3b**

## Amplification plots and Quantitation data for EGFP (Duplexed with Human GAPDH Figure 4b)



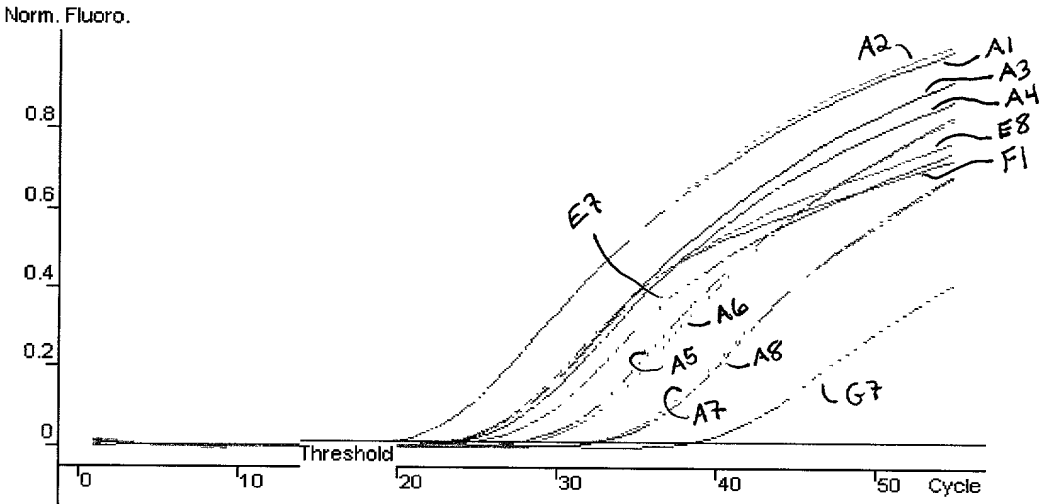
### Standard Curve



No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
A1		dT/SS RNA 500ng	Standard	500,000	475,544	4.89%	31.94	0.01
A2		dT/SS RNA 500ng	Standard	500,000	481,621	3.68%	31.92	0.01
A3		dT/SS RNA 50ng	Standard	50,000	60,025	20.05%	35.2	0.26
A4		dT/SS RNA 50ng	Standard	50,000	43,148	13.70%	35.72	0.26
A5		dT/SS RNA 5ng	Standard	5,000	4,889	2.22%	39.15	0.15
A6		dT/SS RNA 5ng	Standard	5,000	5,877	17.55%	38.86	0.15
A7		dT/SS RNA 0.5ng	Standard	500	422	15.67%	43.01	0.20
A8		dT/SS RNA 0.5ng	Standard	500	544	8.71%	42.61	0.20
E7		RT Plus MM96L EGFP #22 NRO 10 <sup>6</sup> nuclei	Sample		94,810		34.48	
E8		RT Plus MM96L EGFP #22 NRO 10 <sup>6</sup> nuclei	Sample		244,164		32.99	
F1		RT Plus MM96L EGFP #22 NRO 10 <sup>6</sup> nuclei	Sample		265,171		32.86	
G7		RT minus MM96L EGFP #22 NRO 10 <sup>6</sup> nuclei	Sample		1,759		40.76	

**Figure 4a**

## Amplification plots and Quantitation data for Human GAPDH (Duplexed with EGFP Figure 4a)



### Standard Curve

60 CT

R = 0.99901

50

40

30

20

10

0

$10^2$

$10^3$

$10^4$

$10^5$

$10^6$

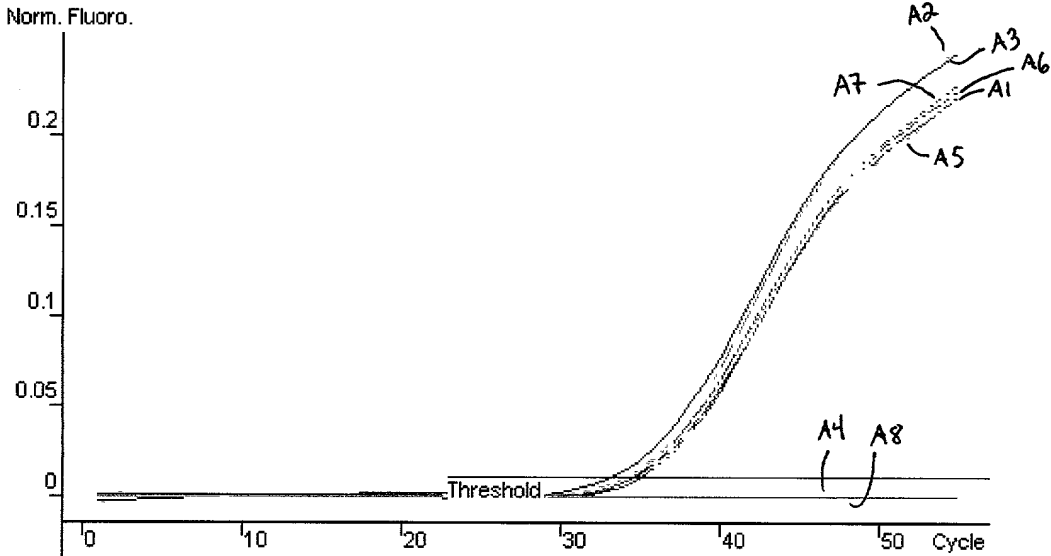
Concentration









No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
A1		dT/SS RNA 500ng	Standard	500,000	459,772	8.05%	19.41	0.06
A2		dT/SS RNA 500ng	Standard	500,000	491,034	1.79%	19.29	0.06
A3		dT/SS RNA 50ng	Standard	50,000	59,175	18.35%	23.15	0.21
A4		dT/SS RNA 50ng	Standard	50,000	47,005	5.99%	23.57	0.21
A5		dT/SS RNA 5ng	Standard	5,000	4,378	12.44%	27.9	0.28
A6		dT/SS RNA 5ng	Standard	5,000	5,984	19.68%	27.33	0.28
A7		dT/SS RNA 0.5ng	Standard	500	448	10.48%	32.06	0.16
A8		dT/SS RNA 0.5ng	Standard	500	530	6.10%	31.75	0.16
E7		RT Plus MM96L EGFP #22 NRO $10^6$ nuclei	Sample		26,434		24.62	
E8		RT Plus MM96L EGFP #22 NRO $10^6$ nuclei	Sample		81,772		22.56	
F1		RT Plus MM96L EGFP #22 NRO $10^6$ nuclei	Sample		70,909		22.82	
G7		RT minus MM96L EGFP #22 NRO $10^6$ nuclei	Sample		16		38.17	

**Figure 4b**



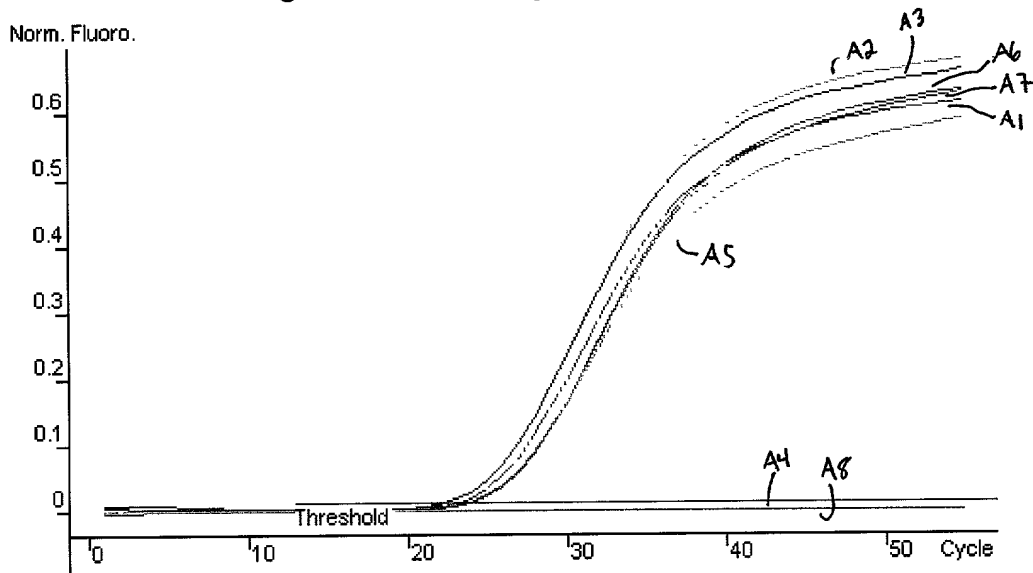
# **Amplification plots and Quantitation data for Human Endogenous HER2 (Duplexed with Human GAPDH Figure 5b)**











No.	Colour	Name	Type	Ct	Ct Std. Dev.
A1		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #2.6	Sample	34.63	0.67
A2		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #2.6	Sample	34.47	
A3		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #2.6	Sample	33.4	
A4		NRO 10 <sup>6</sup> nuclei RTminus MDA-MB 468 HER2 positive clone #2.6	Sample		
A5		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #4.3	Sample	34.22	0.47
A6		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #4.3	Sample	34.74	
A7		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #4.3	Sample	35.16	
A8		NRO 10 <sup>6</sup> nuclei RTminus MDA-MB 468 HER2 positive clone #4.3	Sample		

**Figure 5a**

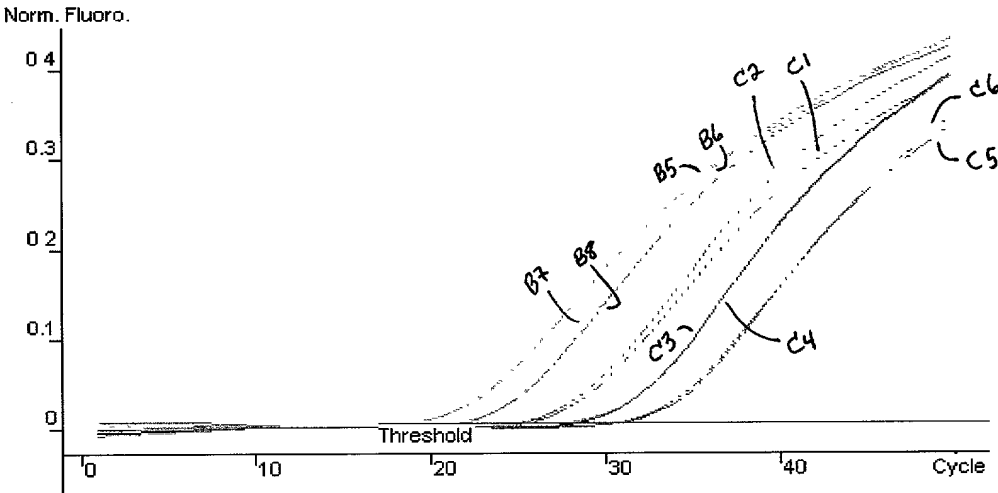
# **Amplification plots and Quantitation data for Human GAPDH (Duplexed with Human Endogenous HER2 Figure 5a)**



No.	Colour	Name	Type	Ct	Ct Std. Dev.
A1		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #2.6	Sample	23.16	0.48
A2		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #2.6	Sample	22.35	
A3		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #2.6	Sample	22.31	
A4		NRO 10 <sup>6</sup> nuclei RTminus MDA-MB 468 HER2 positive clone #2.6	Sample		
A5		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #4.3	Sample	23.77	0.18
A6		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #4.3	Sample	23.71	
A7		NRO 10 <sup>6</sup> nuclei RT+ive MDA-MB 468 HER2 positive clone #4.3	Sample	24.05	
A8		NRO 10 <sup>6</sup> nuclei RTminus MDA-MB 468 HER2 positive clone #4.3	Sample		

**Figure 5b**

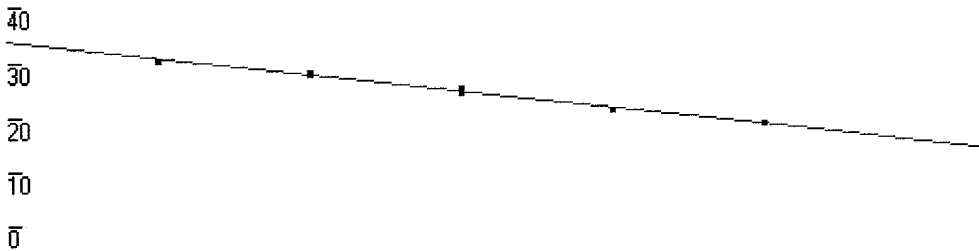
## Amplification plots and Quantitation data for HER-2 Exogenous assay (Duplexed with Human GAPDH Figure 6b)



### Standard Curve

50 CT

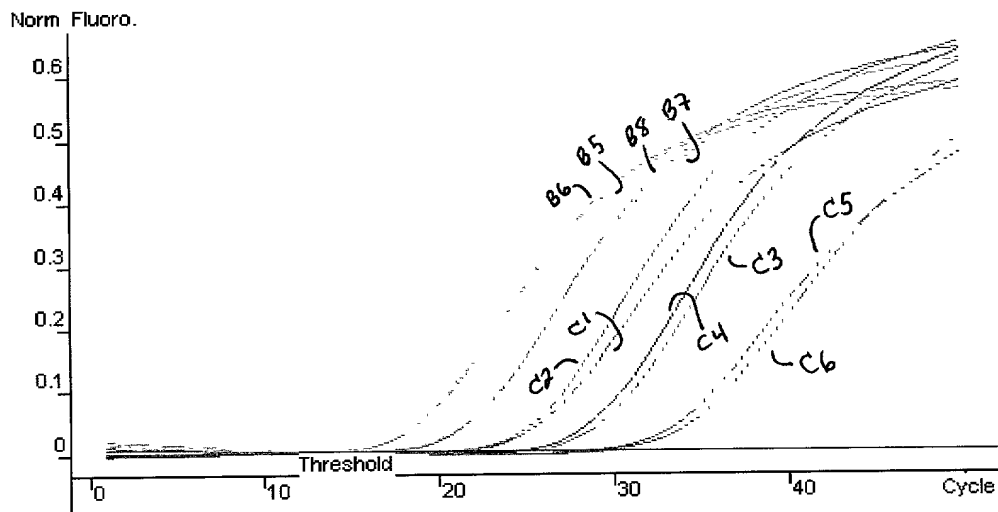
R = 0.99786



No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.
B5		750ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	1,000,000	955,084	4.49%	18.57	0.02
B6		750ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	1,000,000	933,856	6.61%	18.6	0.02
B7		75ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	100,000	130,162	30.16%	21.23	0.10
B8		75ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	100,000	111,212	11.21%	21.44	0.10
C1		7.5ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	10,000	7,058	29.42%	25.12	0.34
C2		7.5ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	10,000	11,748	17.48%	24.44	0.34
C3		0.75ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	1,000	879	12.08%	27.9	0.14
C4		0.75ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	1,000	707	29.25%	28.19	0.14
C5		0.075ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	100	124	24.39%	30.51	0.02
C6		0.075ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	100	121	20.72%	30.55	0.02

**Figure 6a**

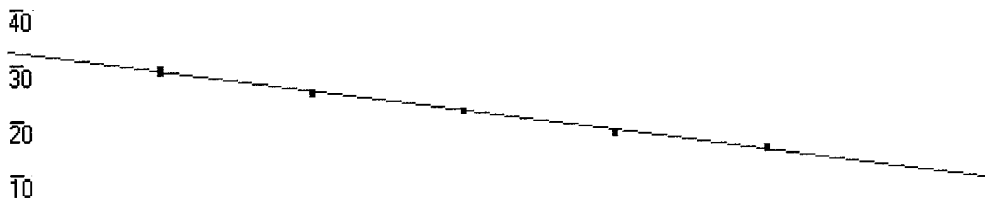
# **Amplification plots and Quantitation data for Human GAPDH (Duplexed with HER-2 Exogenous assay Figure 6a)**



## **Standard Curve**

50 CT

R = 0.99756



		10 <sup>-1</sup>	10 <sup>-2</sup>	10 <sup>-3</sup>	10 <sup>-4</sup>	10 <sup>-5</sup>	10 <sup>-6</sup>	Concentration	
No.	Colour	Name	Type	Given Conc.	Calculated Conc.	CV	Ct	Ct Std. Dev.	
B5		750ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	1,000,000	890,570	10.94%	13.95	0.21	
B6		750ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	1,000,000	687,974	31.20%	14.37	0.21	
B7		75ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	100,000	131,712	31.71%	17.06	0.07	
B8		75ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	100,000	120,854	20.85%	17.2	0.07	
C1		7.5ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	10,000	10,472	4.72%	21.18	0.04	
C2		7.5ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	10,000	9,969	0.31%	21.26	0.04	
C3		0.75ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	1,000	995	0.50%	25.01	0.21	
C4		0.75ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	1,000	1,296	29.59%	24.58	0.21	
C5		0.075ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	100	114	14.38%	28.53	0.44	
C6		0.075ng DNA MDA-MB 468 4.13 HER-2 Exo/GAPDH	Standard	100	67	33.40%	29.41	0.44	

**Figure 6b**